



Copy of claims  
as filed with  
Application

## CLAIMS

1/ A fluid dispenser pump including a pump body (10), a piston (20) being slidably received in leaktight manner in said pump body (10) to slide between a rest position and a dispensing position, the top edge (11) of the pump body (10) being fixed in a fixing ring (5) serving to assemble said pump to a reservoir (1), an annular sealing gasket (100, 200) being disposed between said pump body (10) and said fixing ring (5), said pump further being provided with a intake air passageway (80) between the reservoir (1) and the atmosphere, said pump being characterized in that a filtration and/or treatment element (100) for filtering and/or treating the intake air is provided in said intake air passageway (80), said filtration element (100) being disposed between said top edge (11) of the pump body and said fixing ring (5).

2/ A pump according to claim 1, in which said intake air passageway (80) is open when the pump (20) is in all of its positions.

3/ A pump according to claim 1 or 2, in which said annular gasket (100) forms the filtration element, said gasket (100) being permeable to air and impermeable to the fluid dispensed by said pump.

4/ A pump according to claim 1 or 2, in which the pump further includes a ferrule (60) mounted on the top edge (11) of the pump body (10) between said top edge and said annular gasket (200), said ferrule (60) extending inside said pump body (10) to co-operate with said piston (20) when said piston (20) is in the rest position, the filtration element (100) being disposed between the top edge (11) of the pump body (10) and said ferrule (60).

5/ A pump according to claim 4, in which the top edge (11) of the pump body (10) is provided with a through

bore (70) defining a portion of the intake air passageway (80), said filtration element (100) being disposed between said top edge (11) of the pump body (10) and said ferrule (60), while covering over said through bore (70) completely.

6/ A pump according to claim 5, in which said filtration element (100) is provided with passageway means for defining a portion of air passageway between the ferrule (60) and the annular gasket (200).

7/ A pump according to claims 1 and 4, in which said intake air passageway (80) is defined between the ferrule (60) and said pump body (10) so that the ferrule (60) closes off said air passageway (80) when the pump is in the rest position, said air passageway (80) being open when said piston (20) is displaced towards its dispensing position.

8/ A pump according to any one of claims 4 to 7, in which said ferrule (60) is provided with a radial flange (61) co-operating with the top edge (11) of the pump body (10), said flange (61) incorporating an opening (63) and/or passageway means (62), such as one or more grooves and/or ribs to define a portion of intake air passageway.

9/ A pump according to claim 7 or 8, in which said top edge (11) of the pump body (10) is provided with passageway means (12) such as one or more grooves and/or ribs to define a portion of intake air passageway.

10/ A pump according to any one of claims 7, 8, and 9, in which said filtration element (100) is disposed on the end wall of said top edge (11) of the pump body (10), between said passageway means (62) in said flange (60) and said passageway means (12) in said pump body (10).

11/ A pump according to any one of claims 1 to 3, in which the pump includes a ferrule (60) mounted on the top edge (11) of the pump body (10) between said top edge and said annular gasket (200), said ferrule (60) extending  
5 inside said pump body (10) to co-operate with said piston (20), the filtration element (100) being disposed between said ferrule (60) and said fixing ring (5).

12/ A pump according to any preceding claim, in which the  
10 pump body (10) incorporates a vent hole (85) forming a portion of the intake passageway (80) defined between the ferrule (60) and the pump body (10).

13/ A fluid dispenser device characterized in that it  
15 includes a dispenser pump according to any one of claims 1 to 12.